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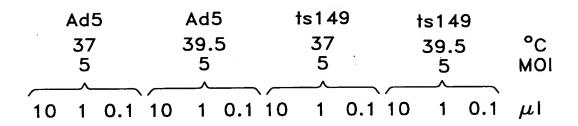
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Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al. Application No.: 10/020,482 Docket No.: 226272003311

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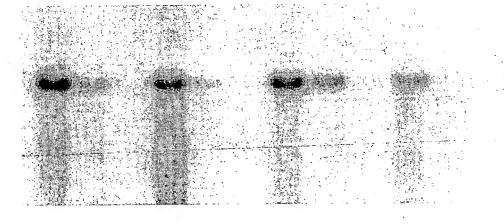


Figure 1



°C

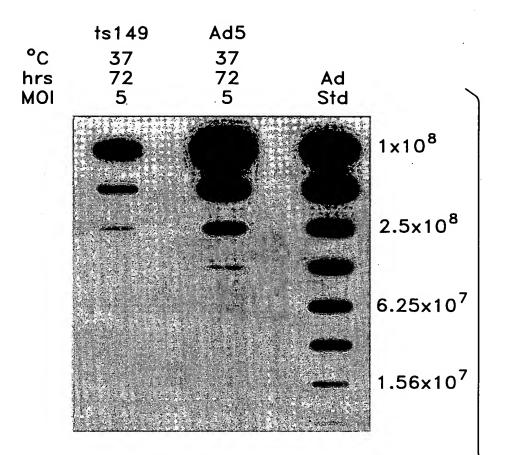
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Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al. Application No.: 10/020,482

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## Ad5 ts149 39.5 39.5 72 5 72 Ad Std 5 $3.9 \times 10^{6}$

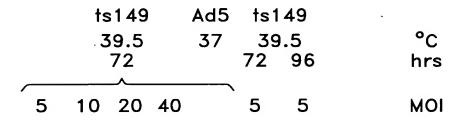
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Figure 2



Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.
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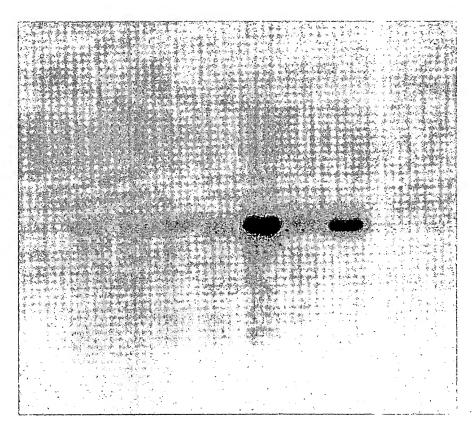
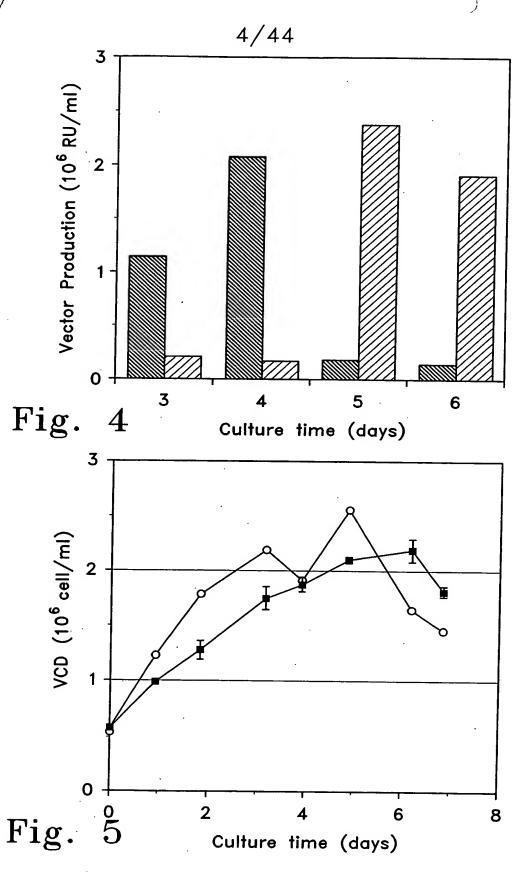


Figure 3

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.

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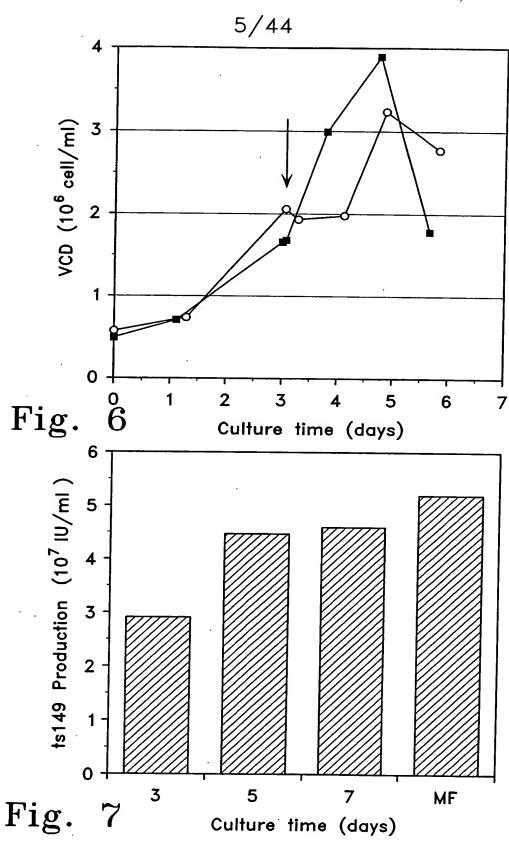
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Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.

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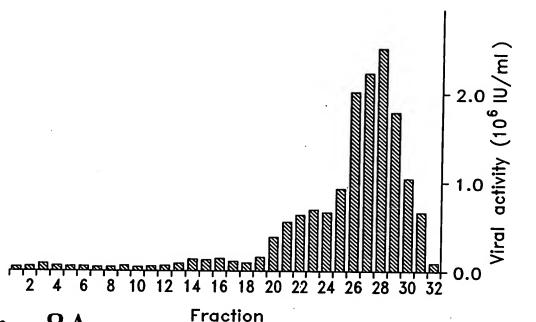


Fig. 8A

Fraction

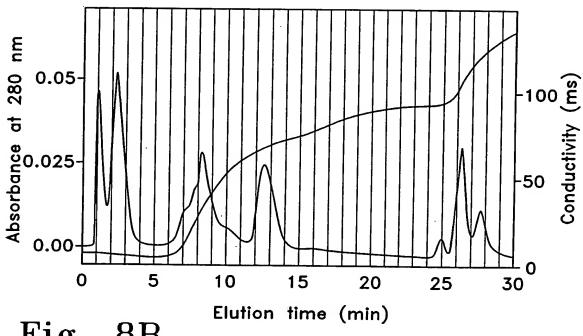


Fig. **8B** 

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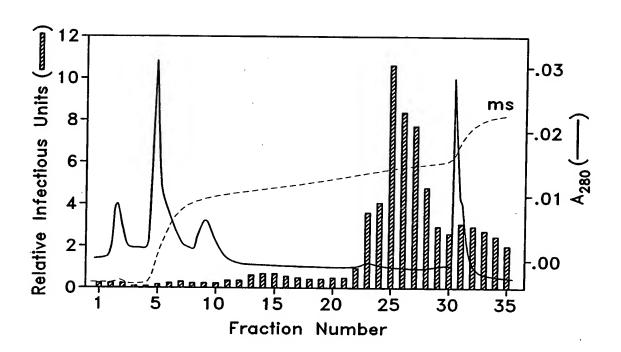


Fig. 9



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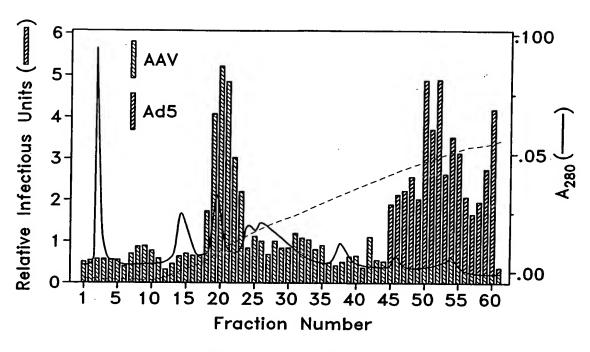


Fig. 10A

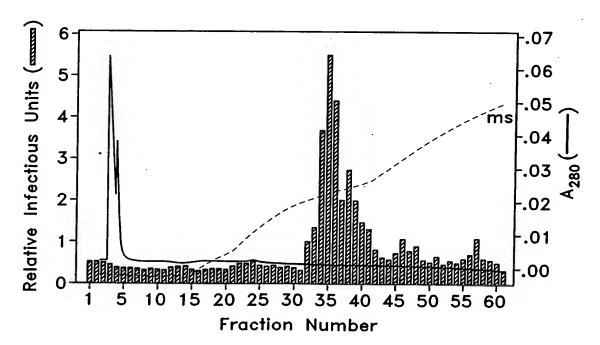


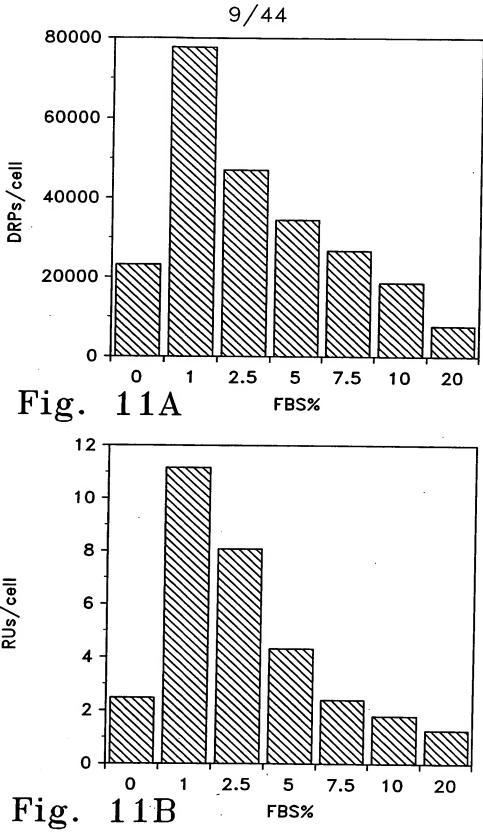
Fig. 10B

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Initial Permeate **Bulk Permeate Bulk Retentate** Conc. Product PI Pool + Ad5 PI Pool 97 116 99 55



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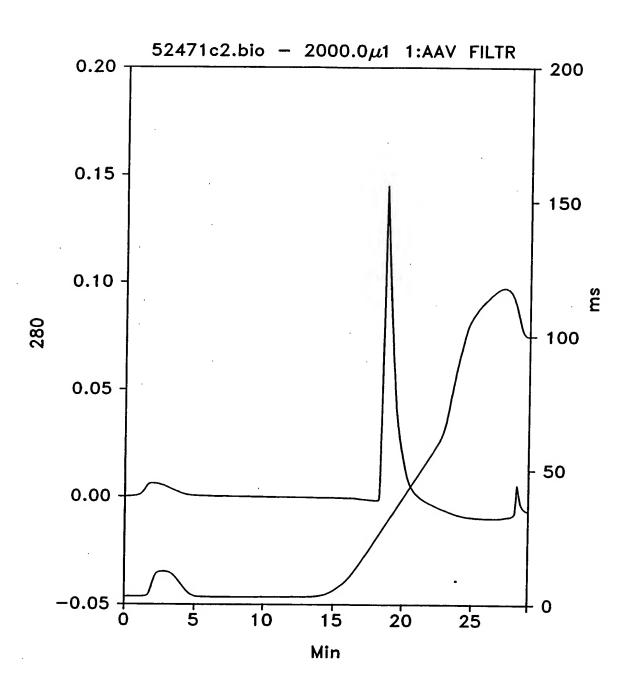


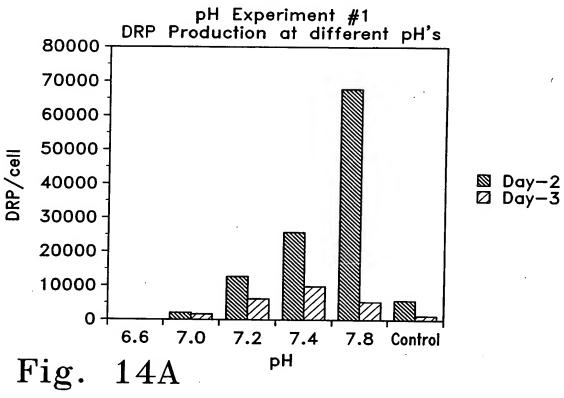
Fig. 13

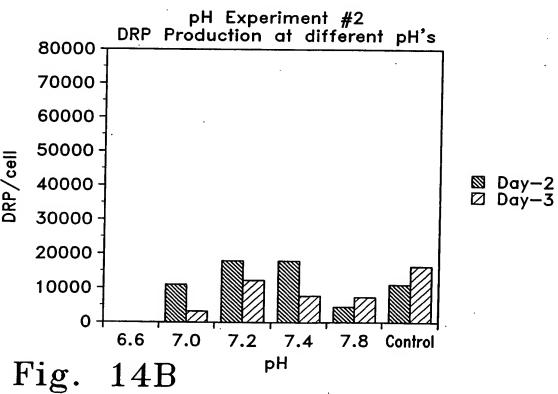
Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.

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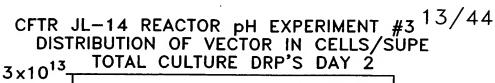


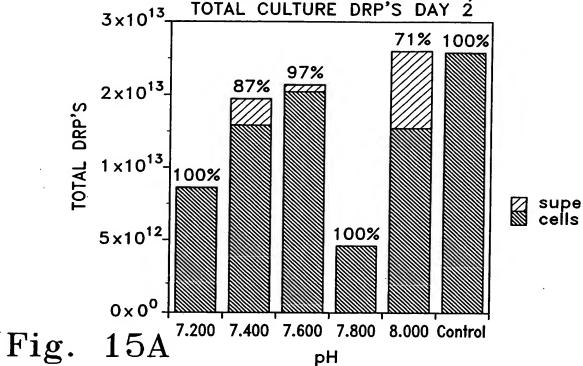
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Inventor: Edward M. ATKINSON et al.

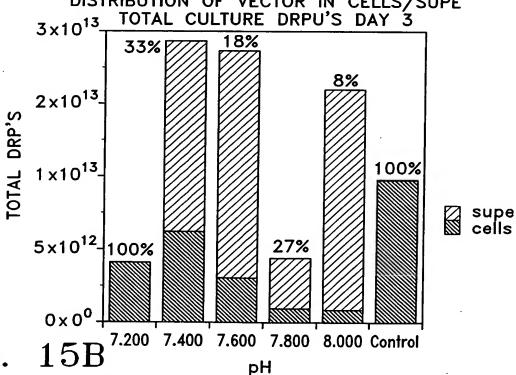
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CFTR JL-14 REACTOR pH EXPERIMENT #3
DISTRIBUTION OF VECTOR IN CELLS/SUPE
1013 TOTAL CULTURE DRPU'S DAY 3

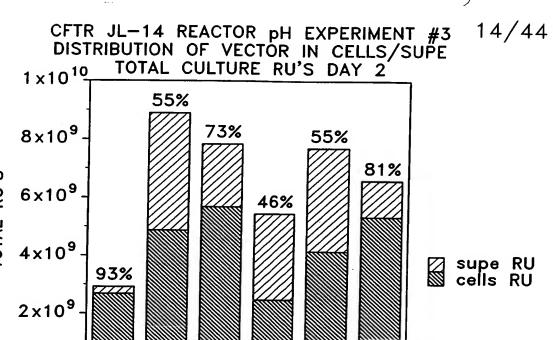


Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS

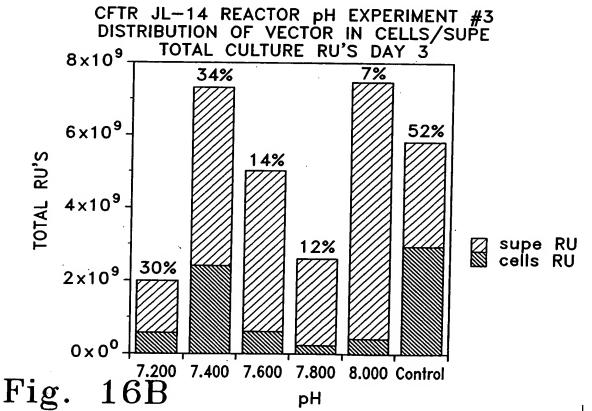
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 $Fig. \ \ 16A \ \ \ ^{7.200} \ \ ^{7.400} \ \ ^{7.600} \ \ ^{7.800} \ \ ^{8.000} \ \ ^{\text{Control}}$ 





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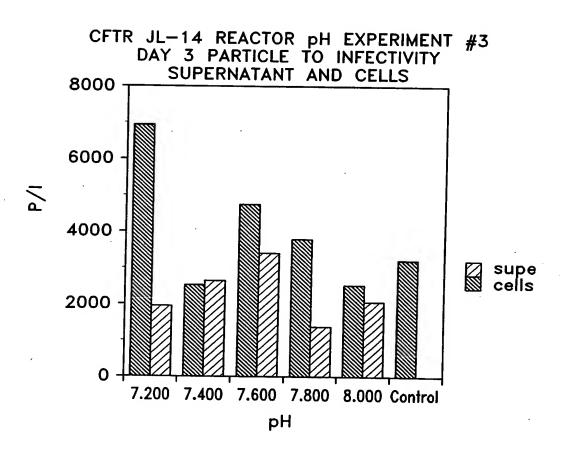


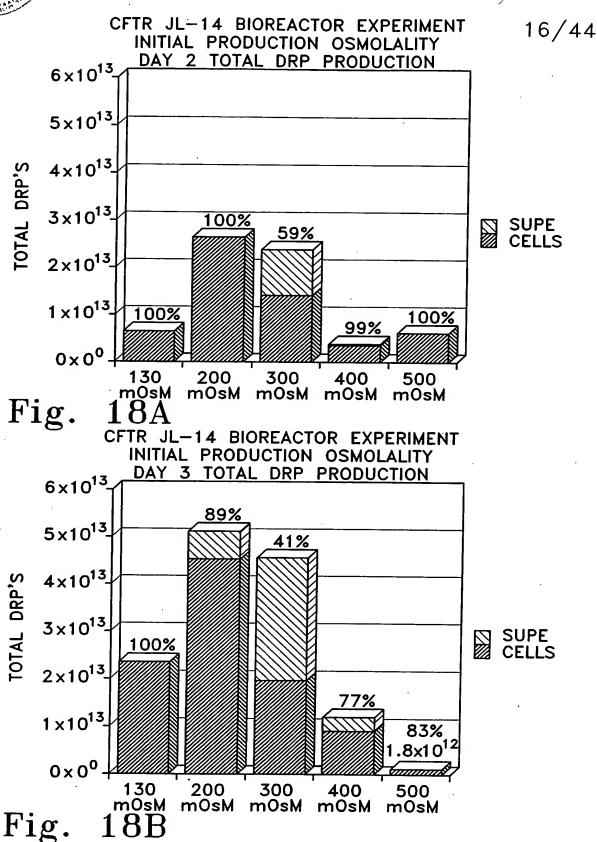
Fig. 17

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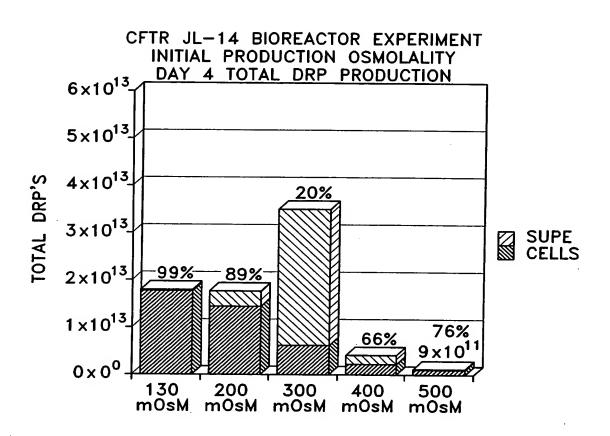
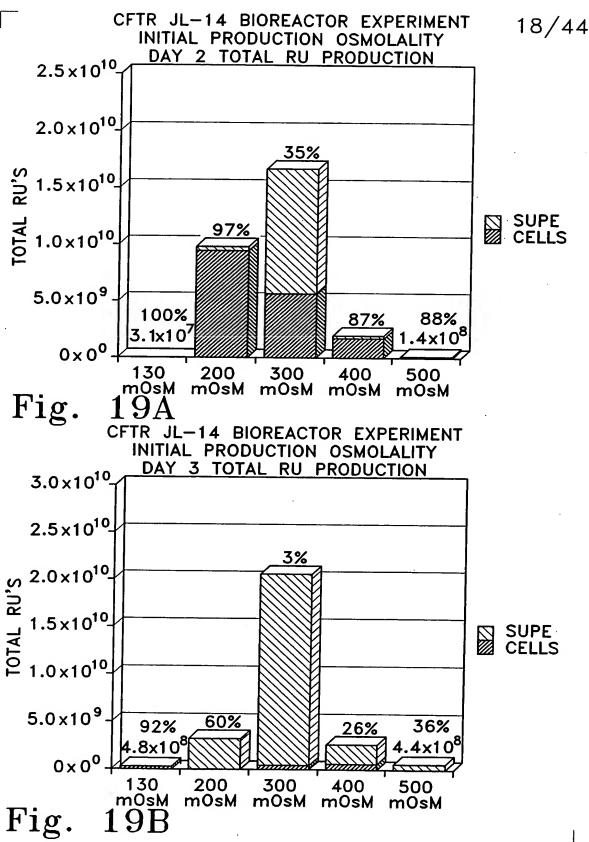


Fig. 18C

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.

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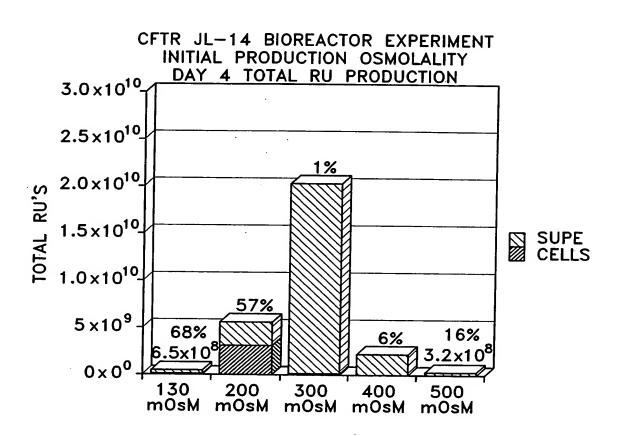


Fig. 19C



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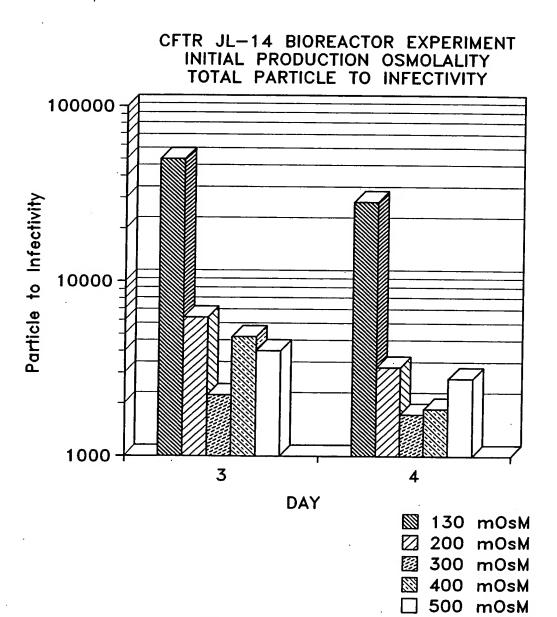


Fig. 20

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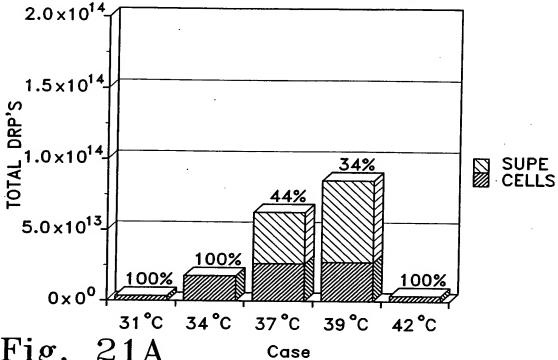


Fig.

CFTR JL-14 REACTOR EXP. TEMPERATURE DAY 3 TOTAL DNASE RESISTANT PARTICLES

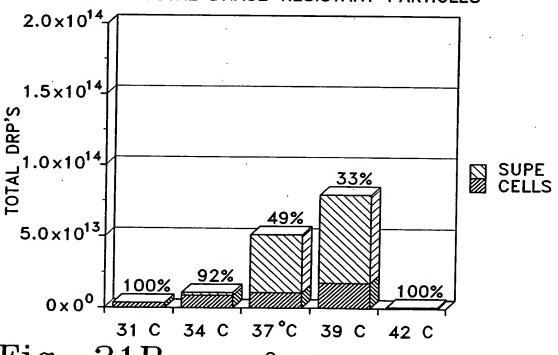


Fig. 21B

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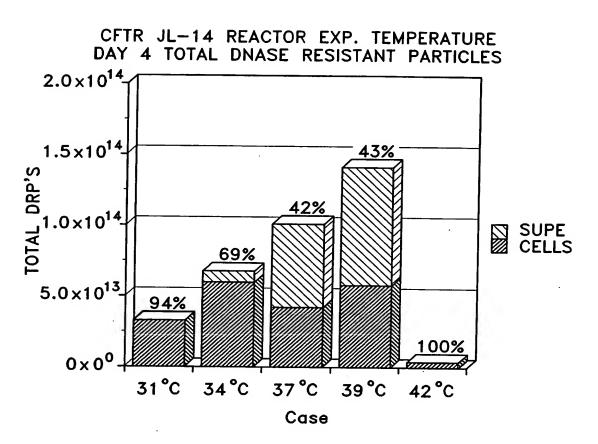


Fig. 21C



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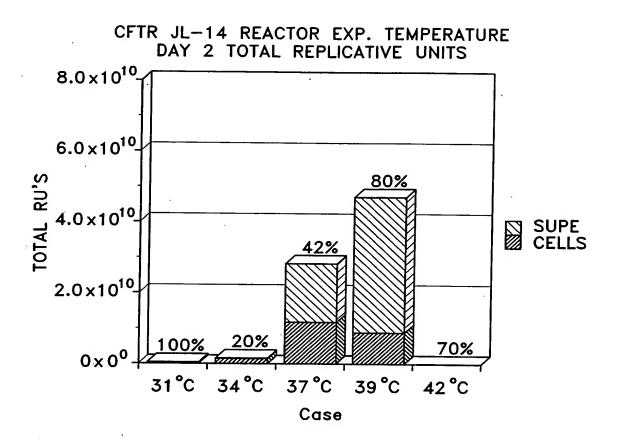


Fig. 22A

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS

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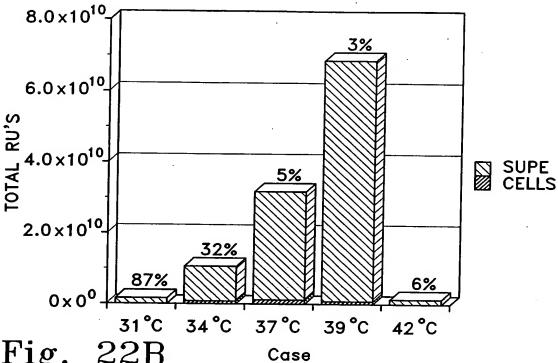


Fig.

CFTR JL-14 REACTOR EXP. TEMPERATURE DAY 4 TOTAL REPLICATIVE UNITS

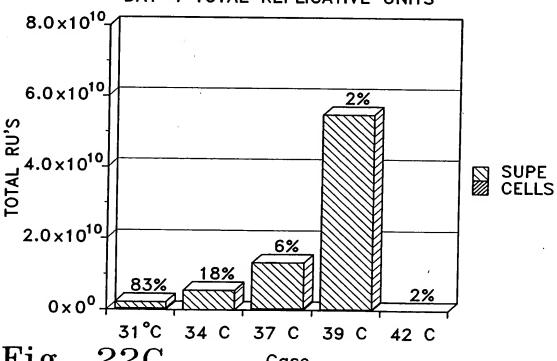


Fig. 22C

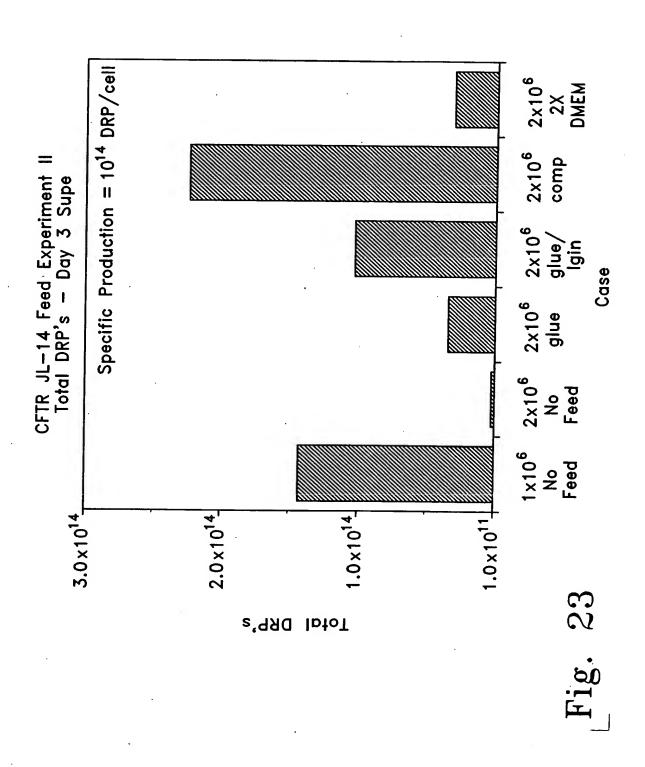
Case



Inventor: Edward M. ATKINSON et al.

Application No.: 10/020,482 Docket No.: 226272003311

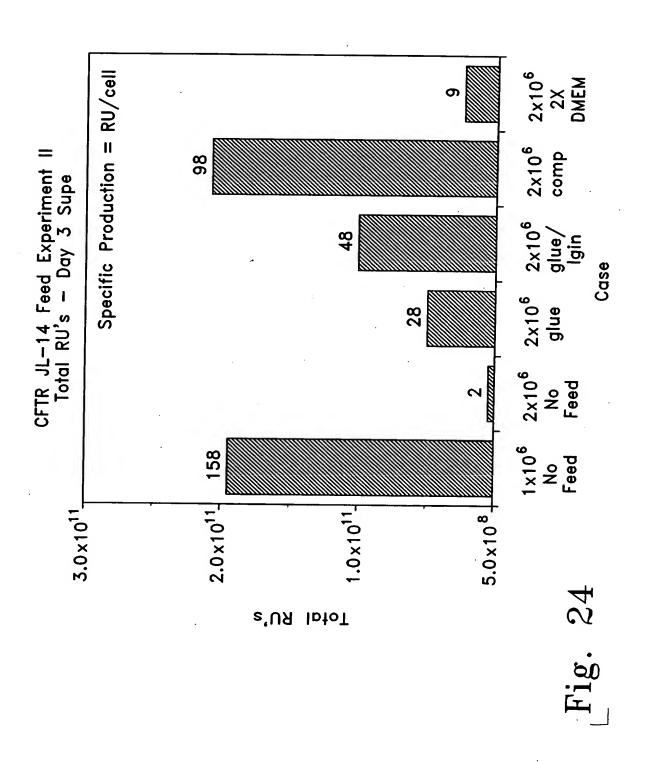
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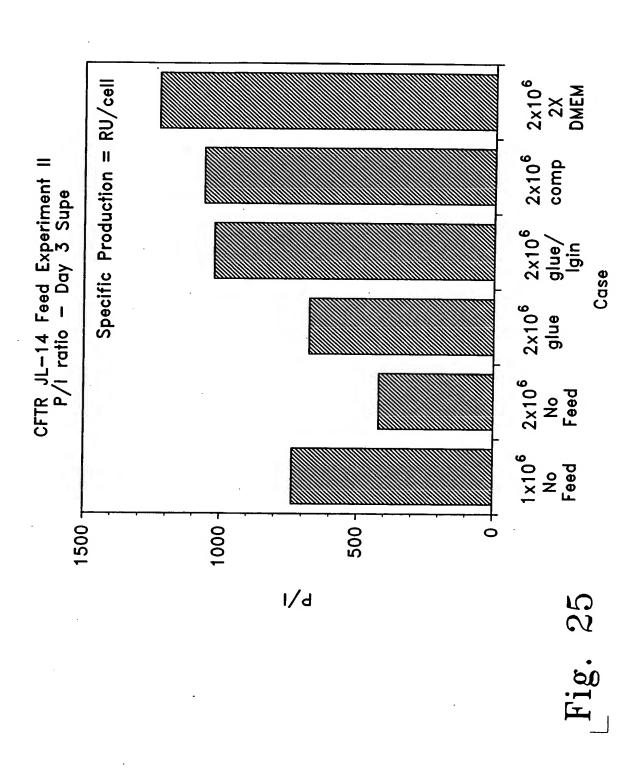
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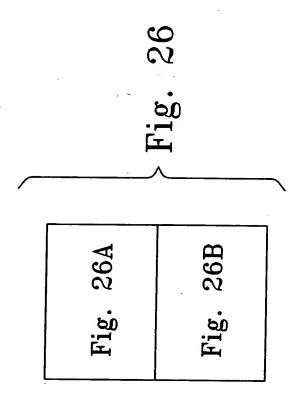




Fig. 26A

Title: METHODS FOR GENERATING HIGH TITER HELPER-FREE PREPARATIONS OF RELEASED RECOMBINANT AAV VECTORS Inventor: Edward M. ATKINSON et al.

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lions <sup>2</sup>	21135	50X Liquid 50X Liauid	mg/L 6320.00	1200.00	2100.00	2625.00	2620.00	3625.00 755.00	1650.00	2380.00	510.00	1800.00	2340.00
Acids Solu	11136	50X Liqu	mg/L 6320.00	1200.00	2100.00	2625.00	2620.00	3625.00 755.00	1650.00	2380.00	510.00	1800.00	2340.00
MEM Amino Acids Solutions <sup>2</sup>	Base Cat No.	Component	AMINO ACIDS: L-Arginine	L-Cystine I-Glutomine	L-Histidine-HCL- H <sub>2</sub> 0 2100.00	L-Isoleucine		L=Lysins HCL   L=Methionine	L-Phenylainine	L-Threonine	L-Tryptophan	L-Tyrosine	L-Valine
	11800 Powder	mg/L	200.00	400.00 97.70	6800.00		140.00	000.00 1000.00	5000.00	10.00			
lydrolysate Its (ELH)	11250 11800 1XI Iquid Powder	mg/L	200.00	400.00 97.67	6800.00	2200.00	140.00 140.00	1000.00	6500.00 5000.00	10.00			
Lactalbumun Hydrolysate w/Earle's Salts (ELH)	Base Cat No.	Component	INORGANIC SALTS: CaCl <sub>2</sub> (anhyd.)	KCI MgSO₄ (anhyd.)	Naci	NAHCU3	NUMBER OF MOUNTAINED	D-Glucose	Lactalbumin Hydrolysate	rnenol Ked			

References:

(1955) Proc. Soc. Exp. Biol. Med. 89, 362. (1959) Science 130, 432

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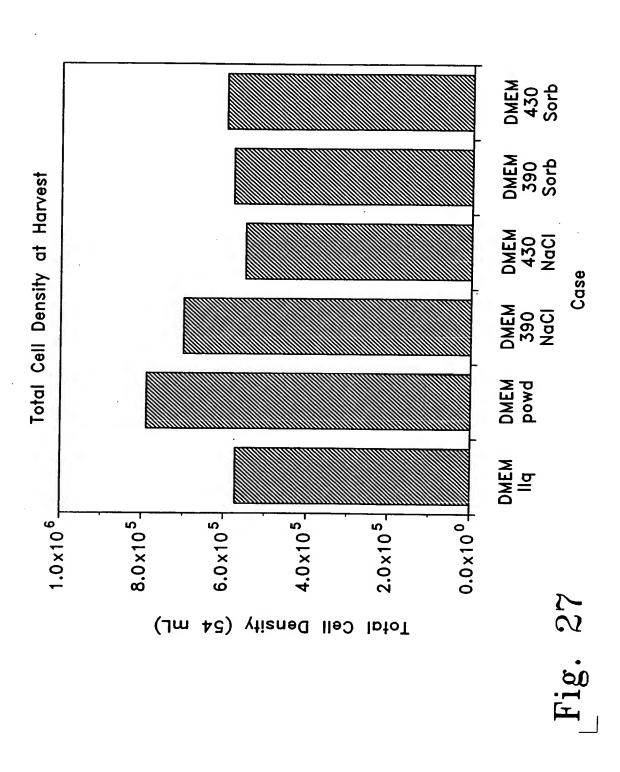
MEM Vitamon Solutions <sup>2</sup>	olutions <sup>2</sup>
Base Cat No.	11120
Component	mg/L
NaC! D-Ca Pantothenate	8500.00
Choline Chloride	00.00
I-Inositol	200.00
Nicotinamide	100.00
Pyridoxal-HCL	100.00
Riboflavin	10.00
Thiamine HCL	100.00

MEM Non-Essential	sential
Amino Acids Solution	solution 4
Base Cat No.	11140
	100X
	Liquid
Component	mg/L
AMINO ACIDS:	
L-Algnine	890.00
L-Asparagine	1500.00
L-Aspartic	1330.00
L-Glutamine	1470.00
Glycine	750.00
L-Proline	1150.00
L-Serine	1050.00



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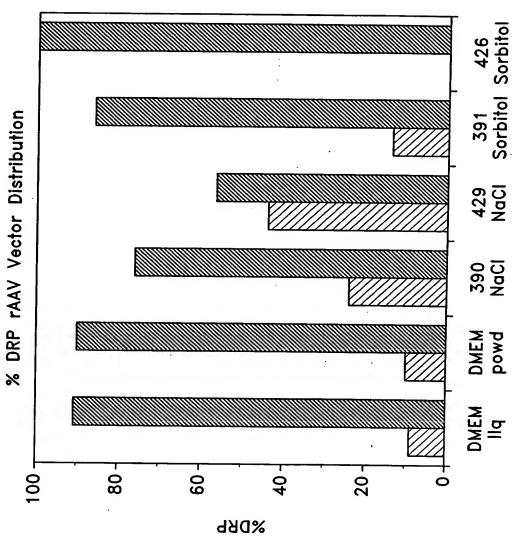
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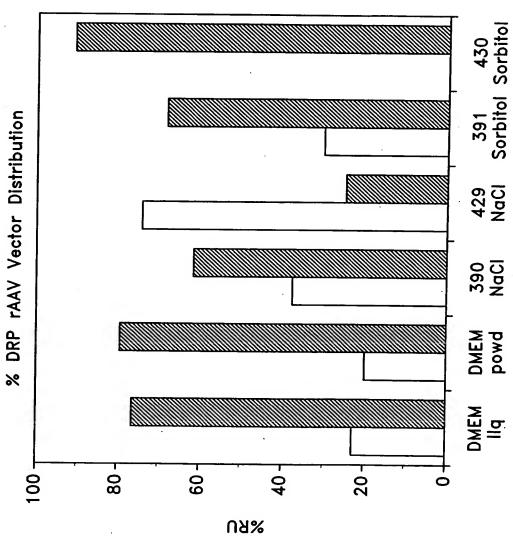
Media Formulation



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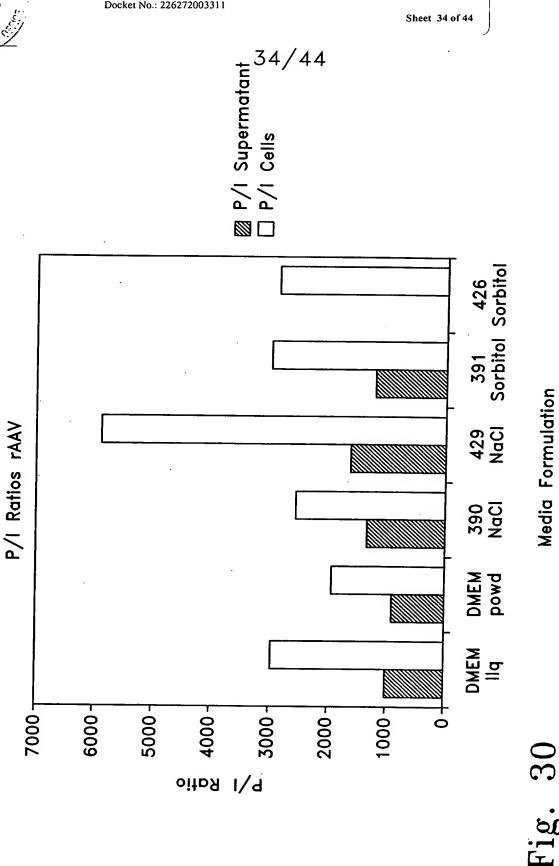


29

Media Formulation

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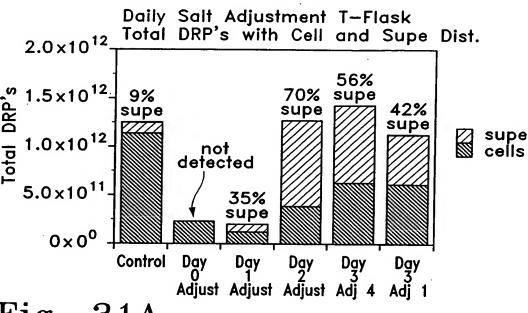


Fig. 31A

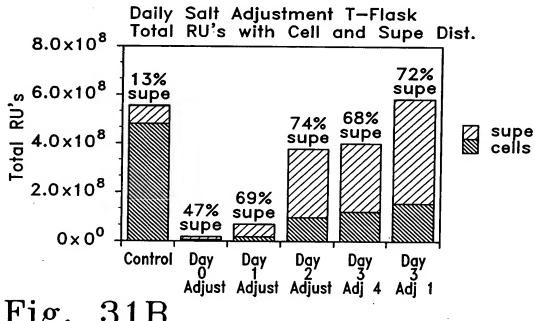


Fig. 31B



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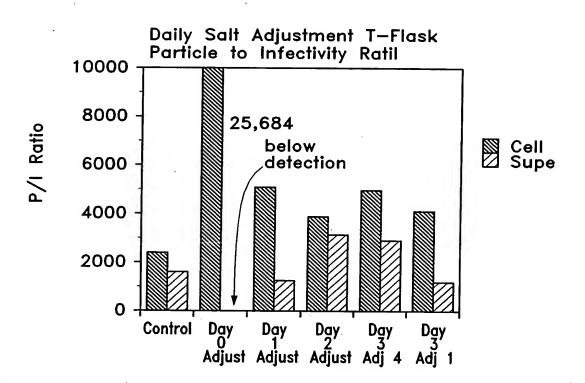


Fig. 32

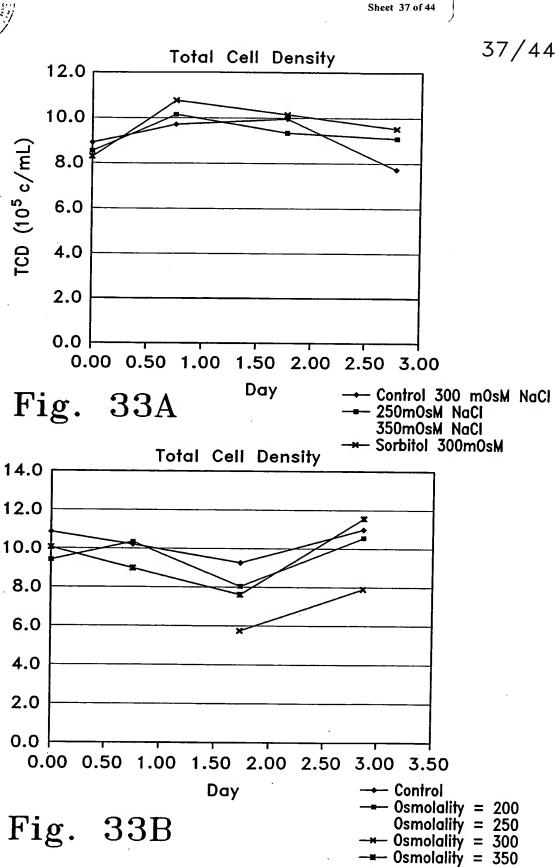


TCD (10<sup>5</sup> c/mL)

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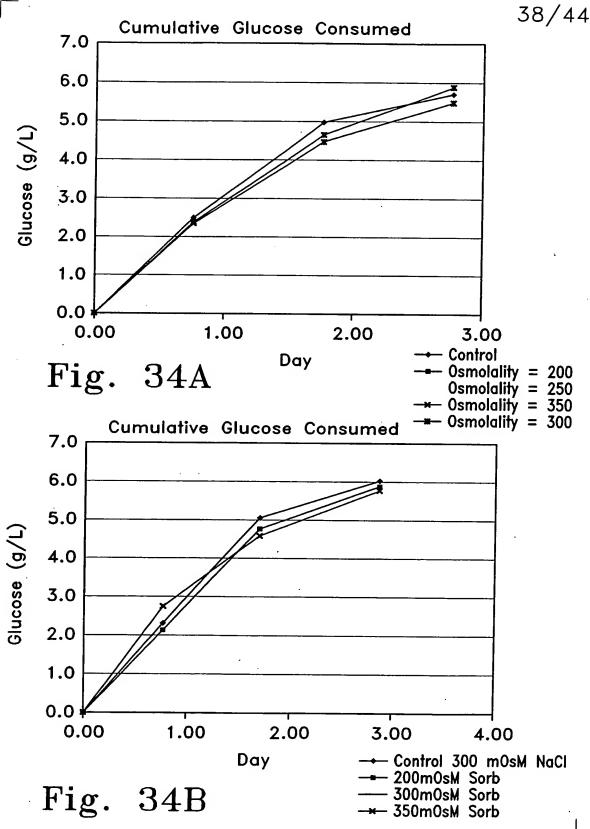


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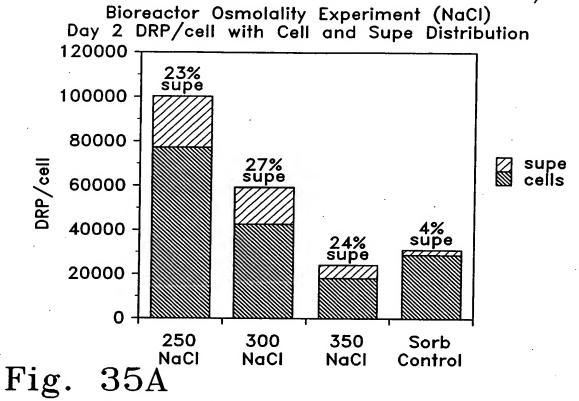


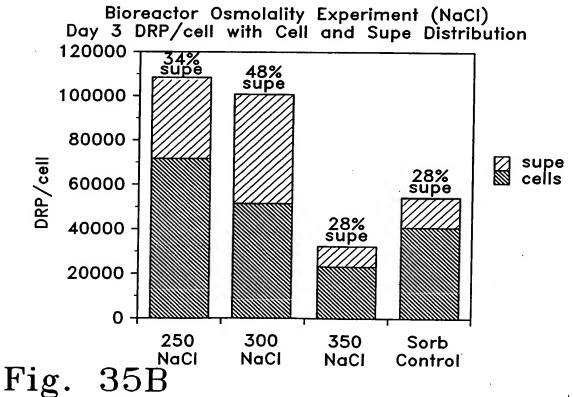
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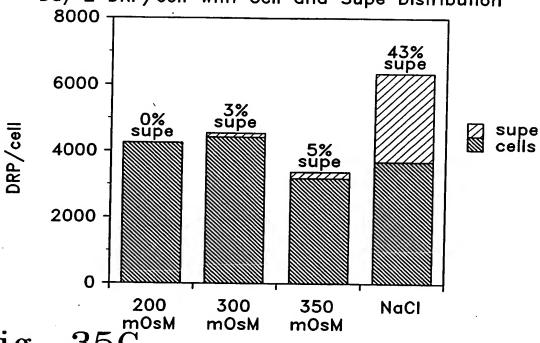


Fig. 35C

Bioreactor Osmolality Experiment (Sorbitol)
Day 3 DRP/cell with Cell and Supe Distribution

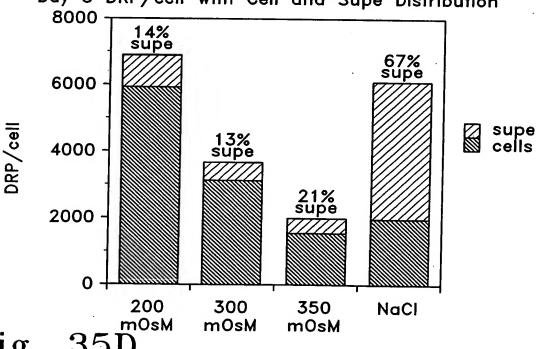
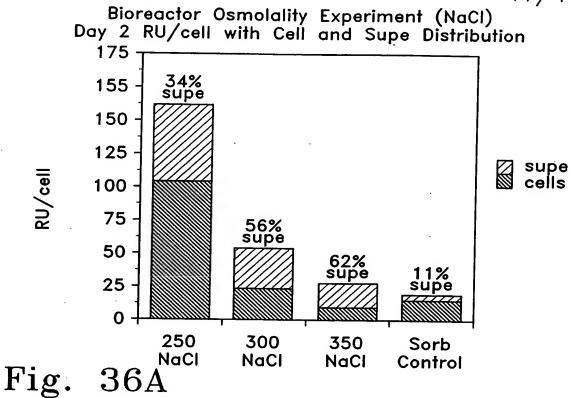


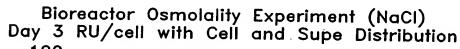
Fig. 35D

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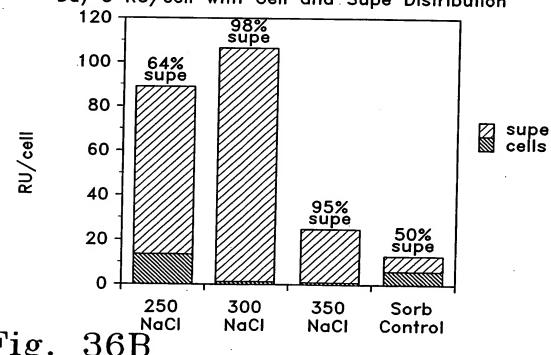
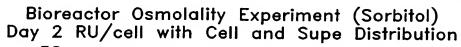


Fig. 36B

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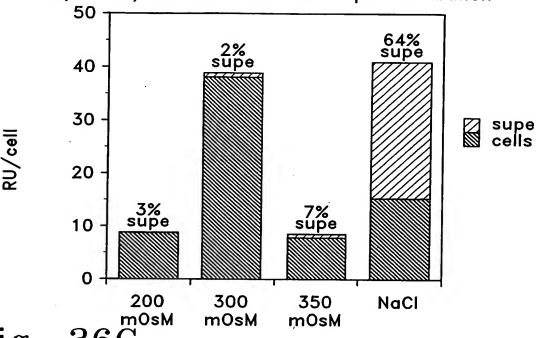


Fig. 36C

Bioreactor Osmolality Experiment (Sorbitol)
Day 3 RU/cell with Cell and Supe Distribution

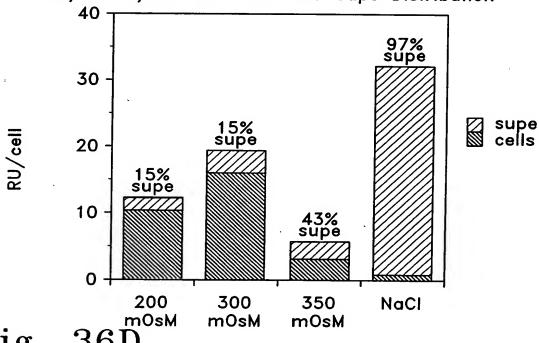


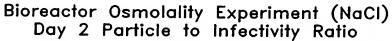
Fig. 36D

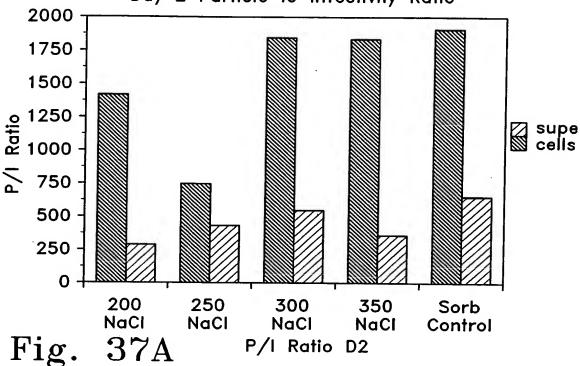


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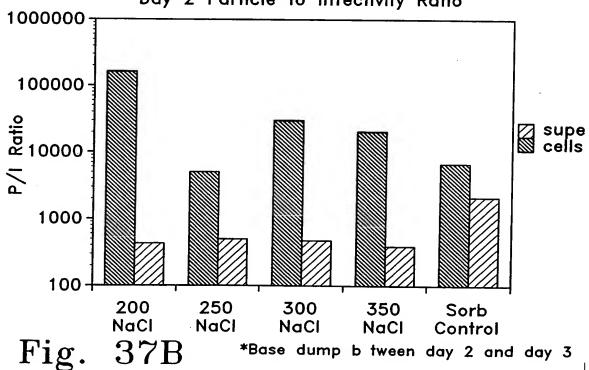
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Bioreactor Osmolality Experiment (NaCl) Day 2 Particle to Infectivity Ratio





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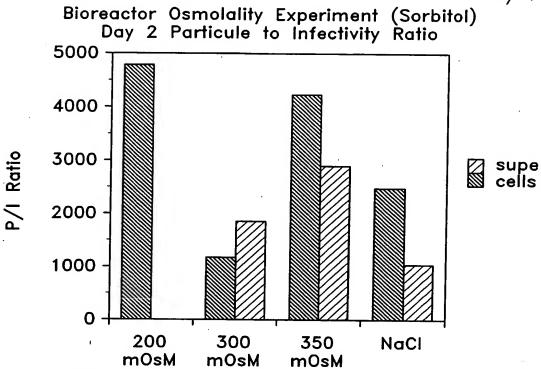


Fig. 37C

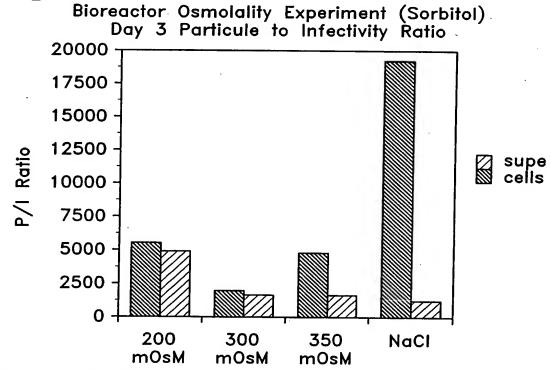


Fig. 37D